



Reliable Oxygen Sensor

YSI's most Reliable Oxygen Sensor to date: ROX

The next generation YSI ROX is a luminescent-based dissolved oxygen sensor that offers YSI customers the most powerful tool for making long-term oxygen measurements in severe fouling and low oxygen environments. Its rugged design and large measurement range make it ideal for sampling, flow cell and groundwater measurements.



The ROX Reliable Oxygen Sensor

- Utilizes luminescence lifetime detection of oxygen to provide the most stable measurements possible
- Microprocessor-controlled measurement system reduces drift and improves accuracy
- Easy to replace, durable membrane with a usable life of one year
- Fully compatible with all YSI 6-Series sondes equipped with optical ports—with a free and easy firmware upgrade from ysi.com
- Easy one or two point calibration:
 - One-point saturation
 - Two-point for a zero calibration point and saturation
- Integrated wiping system providing anti-fouling in the most hostile environments and featuring:
 - New switch controlled wiper parking system
 - Non-corroding titanium wiper shaft for long-life in hydrogen sulfide (H₂S) and low oxygen environments
 - Service-Center-replaceable wiper shaft seal for longer sensor life
- Widest detection range of any optical dissolved oxygen sensor for easy correlation with YSI Rapid Pulse™ legacy data

YSI understands the challenges facing scientists and technicians in the field today. Many of our employee-owners spend time working along side our customers in the field and have experienced first hand what works well and what doesn't. The lessons we have learned have been applied to the design of the new ROX sensor.

Pure
Data for a
Healthy
Planet.®

ROX Quality Control and Quality Assurance

Improving on YSI's commitment to supplying our customers with relevant calibration and QA/QC data, each ROX sensor is shipped with full-range factory calibration coefficients to ensure excellent sensor accuracy.



Y S I Environmental

Methodology

The ROX sensing system is based on the luminescence lifetime method. This method was chosen because it offers the most stable, repeatable and sensitive method for oxygen detection, thus reducing sensor drift and prolonging deployment times.

To order, or for more information, contact YSI Environmental.

800 897 4151 (US)
+1 937 767 7241 (Globally)
www.ysi.com

YSI Environmental
+1 937 767 7241
Fax +1 937 767 9353
environmental@ysi.com

Endeco/YSI
+1 508 748 0366
Fax +1 508 748 2543
environmental@ysi.com

SonTek/YSI
+1 858 546 8327
Fax +1 858 546 8150
inquiry@sontek.com

YSI Environmental Gulf Coast
+1 225 753 2650
Fax +1 225 753 8669
environmental@ysi.com

YSI Hydrodata (UK)
+44 (0) 1462 673 581
Fax +44 (0) 1462 673 582
europe@ysi.com

YSI Middle East (Bahrain)
+973 1759 2138
Fax +973 1759 2538
halsalem@ysi.com

YSI (Hong Kong) Limited
+852 2891 8154
Fax +852 2834 0034
ysihk@ysi.com.hk

YSI (Qingdao) Limited
+86 532 575 3636
Fax +86 532 571 0101
ysiqd@ysiqd.com.cn

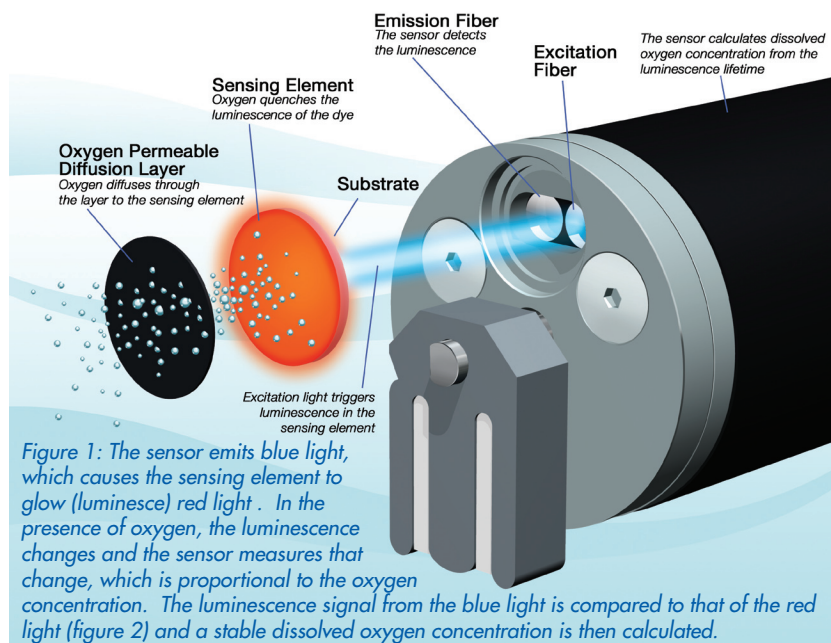
YSI Nanotech (Japan)
+81 44 222 0009
Fax +81 44 221 1102
nanotech@ysi.com

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ISO 14001

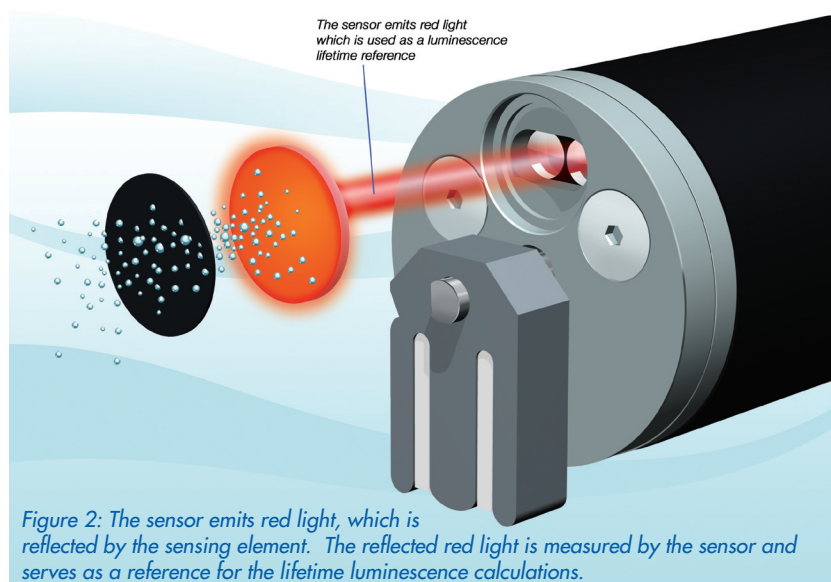
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the Planet?



The ROX membrane differs from the traditional electrochemical sensor membrane, requiring fewer steps for installation and less maintenance. ROX membranes will last for one year and are made of a durable material that is unlikely to be damaged in the field. The ROX sensor eliminates stirring dependency that was required of most traditional polarographic sensors.



Rapid Pulse™ vs. ROX

YSI's ROX sensor has several advantages over the Rapid Pulse DO sensor including:

- Zero flow dependence
- Maintenance-free and puncture-proof membrane
- No electrolyte
- Self-cleaning for longer deployments
- Insensitive to H_2S
- Zero-cal option

ROX Reliable Oxygen Sensor Specifications (Item # 6150)

	Range	Resolution	Accuracy
Optical Dissolved Oxygen* % Saturation	0 to 500%	0.1%	0 to 200%: $\pm 1\%$ of reading or 1% air saturation, whichever is greater; 200 to 500%: $\pm 15\%$ of reading
Optical Dissolved Oxygen* mg/L	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ± 0.1 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L: $\pm 15\%$ of reading

* Maximum depth rating for all optical probes is 200 feet, 60.96 m.